

MECHANISMS OF VASODILATION

WILRIJK 21 - 25 July 1980

PRELIMINARY SCIENTIFIC PROGRAM

The main concern of the Organizing and Scientific Committees has been to promote optimal conditions for personal discussion and exchange of ideas.

THURSDAY, July 24th.

- 8.30 - 10 a.m. Poster Session
- Group 10 - Na^+ , K^+ exchanges - moderator D.F. Hoer
Posters 9, 18, 27, 30, 31, 34, 44, 49, 52, 59, 64, 71, 72
- Group 11 - Ca^{2+} exchanges - moderator J.C. Allen
Posters 3, 8, 9, 18, 24, 27, 36, 37, 38, 41, 44, 45, 46, 47, 49, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
- Group 12 - Membrane potential - moderator V. Kravce
Posters 1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
- Group 13 - Morphological adaptation - moderator H. Bevan
Posters 1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
- Group 14 - Mechanical properties - moderator R. Johansson
Posters 1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

Plenary Session 1 - "Basic Mechanisms of Vascular Smooth Muscle Relaxation"

- Chairman: A.P. Somlin
- 10.00 a.m. G. Siegel - Anion, cations, membrane potential and relaxation
- 10.10 a.m. R.C. Webb - Na^+ , K^+ ATP-ase activity and vasodilation
- 10.40 a.m. W.B. Schwartz - Cyclic nucleotides and relaxation
- 11.00 a.m. J.C. Siegel - Calcium and vascular smooth muscle
- 11.10 a.m. H. Stephens - Ca^{2+} sequestration and relaxation of vascular smooth muscle
- 11.40 a.m. Coffee break
- General Discussion Session 3 - "Cellular mechanisms of vasodilation"
- Chairman: D.F. Hoer
- 12.00 p.m. Introductory remarks: D.F. Hoer
- 12.05 p.m. General discussion
- Moderators: J.P. Somlin, J.C. Allen, V. Kravce, H. Bevan, A.P. Somlin, R. Johansson
- 1.05 p.m. Lunch

Plenary Session 1 - "Neurogenic Mechanisms of Vasodilation"

- Chairman: S.Z. Langer
- 8.35 a.m. Introductory Remarks: S.Z. Langer
- Introductory Lectures
- 9.40 a.m. L. Rowell - Vasodilator nerves in man (special lecture)
- 9.00 a.m. J.A. Bevan - Intrinsic tone and inhibition by vasodilator nerves (special lecture)
- Cholinergic Vasodilation
- (co-chairman: M.J. Rand)
- 9.20 a.m. Introductory remarks: M.J. Rand
- 9.25 a.m. J. De Mey - Role of Na^+ , K^+ ATP-ase in the vasodilator response to acetylcholine
- 9.40 a.m. R.F. Furchgott - Role of the endothelium in the vasodilator response to acetylcholine
- 10.00 a.m. P.M. Vanhoutte - Why is acetylcholine a vasodilator?
- 10.10 - 11.10 a.m. Coffee break and Poster Session
- Group 1 - Neurogenic mechanisms - moderator J.T. Shepherd
Posters 21, 24, 34, 40, 41, 50, 68
- Group 2 - Sympathetic mechanisms - moderator P.C. Johnson
Posters 8, 45, 50, 57, 58, 79, 81
- Group 3 - Acetylcholine - moderator O. Nørgaard
Posters 2, 6, 18, 20, 24, 29, 31, 34, 47, 48, 75
- Group 4 - Dopamine - moderator B.D. Fredholm
Posters 11, 60, 70
- Dopaminergic vasodilation
- (co-chairman: P. Hedqvist)
- 11.10 a.m. Introductory remarks: P. Hedqvist
- 11.15 a.m. W. Duijlaert - Prejunctional inhibitory effects of dopamine
- 11.35 a.m. L. Goldberg - Dopamine receptors on vascular smooth muscle (special lecture)
- 11.55 a.m. General Discussion Session 1 - Neurogenic vasodilation
- Chairman: G. Burnstock
- 11.55 a.m. Introductory remarks: G. Burnstock
- 12.00 p.m. General discussion
- Moderators: J.T. Shepherd, O. Nørgaard, P.C. Johnson, B. Fredholm, G. Burnstock, M. Rand, P. Hedqvist
- 1.00 p.m. Lunch

FRIDAY, July 25th.

Plenary Session 2 - "Cerebral Circulation"

- Chairman: I. Leusen
- 8.30 a.m. Introductory remarks: I. Leusen
- 8.35 a.m. C. Ower - Blood-brain barrier and cerebral vasodilation (special lecture)
- 9.55 a.m. S. Duckles - Cholinergic vasodilator innervation of cerebral blood vessels
- 9.15 a.m. D. Heistad - Acetylcholine, adenosine and VIP - effects on cerebral blood flow
- 9.35 a.m. R. Berne - Metabolic regulation of cerebral blood flow
- 9.55-10.45 a.m. Coffee break and Poster Session
- Group 15 - Cerebral circulation - moderator R.J. Traystman
Posters 1, 2, 4, 7, 10, 20, 29, 46, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
- Group 16 - Coronary circulation - moderator S. Vatner
Posters 14, 42, 54, 61, 73, 74
- Group 17 - Hypertension - moderator C.L. Seidel
Posters 5, 7, 12, 13, 30, 36, 38, 49, 56, 71

General Discussion Session 4 - "Cerebral and coronary vasodilation"

Chairman: S. Vatner

10.45 a.m. Introductory remarks: S. Vatner

10.50-11.30 a.m. General discussion

Moderators: P.J. Traystman, S. Vatner, I. Leusen

Plenary Session 3 - "Hypertension and Vascular Smooth Muscle Relaxation"

- Chairman: E.E. Daniel
- 11.30 a.m. Introductory Remarks: E.E. Daniel
- 11.35 a.m. M. Haimovitz - Membrane potential
- 11.55 a.m. F. Haddy - Na^+ , K^+ ATP-ase
- 12.15 a.m. C.Y. Kwan - Ca^{2+} transport
- 12.30 - 1 p.m. General Discussion - moderators: R. Bevan and C.L. Seidel

Plenary Session 4 - "Circulating Substances and Local Vascular Control"

- Chairman: A. Kovach
- 2.00 p.m. Introductory remarks: A. Kovach
- 2.05 p.m. R. Verhaeghe - Plasma constituents causing vasodilation
- 2.25 p.m. N. Toda - Angiotensin as vasodilator
- 2.45 p.m. S. Moncada - Role of vasodilator prostaglandins in vascular control (special lecture)
- 3.05 p.m. Announcement: "Preliminary and the Cardiovascular System"
- Wilrijk, December 1-3, 1980.
- 3.05 p.m. Coffee break and Poster Session
- Group 5 - Circulating vasoactive substances - moderator J. Lundvall
Posters 5, 19, 27, 32, 39, 41, 46, 61, 70, 72, 74, 76, 81, 23, 33
- Group 6 - Prostaglandins - moderator A. Iluyman
Posters 16, 22, 24, 28, 31, 44, 49, 70
- Group 7 - Amino acids - moderator M. Pittman
Posters 35, 41, 42, 51, 51, 78
- Group 8 - Purines - moderator G. Burnstock
Posters 1, 11, 18, 21, 33, 41, 41, 54, 54, 54, 54
- Group 9 - Metabolic vasodilation - moderator S. Kistner
Posters 4, 14, 31, 33, 51, 57, 59, 61, 74, 78

Plenary Session 5 - "Allopathism and Vasodilation"

- Chairman: P.C. Johnson
- 4.10 p.m. Introductory remarks: P.C. Johnson
- 4.15 p.m. T. Forrester - Adenosine or adenosine triphosphate
- 4.35 p.m. H.V. Sparks - Amino acid vasodilation or amino acid vasodilation
- 4.55 p.m. J.T. Shepherd - Cold vasodilation or cold vasodilation (special lecture)
- General Discussion Session 5 - "Endogenous vasodilators"
- Chairman: Z. Danc
- 5.15 p.m. Introductory remarks: Z. Danc
- 5.20 - 6.20 p.m. General discussion
- Moderators: P.C. Johnson, A. Kovach, J. Lundvall, A. Herstein, M. Pittman, G. Burnstock

Plenary Session 6 - "Vasodilator Drug Mechanisms of Action"

- Chairman: F. Gross
- 2.00 p.m. Introductory remarks: F. Gross
- 2.05 p.m. N. Starke - Pre- and postjunctional alpha-adrenergic receptors in the blood vessel wall (special lecture)
- 2.25 p.m. M. Iluyman - Prazosin (special lecture)
- 2.45 p.m. W. Marcol - Hydralazine
- 3.15 p.m. J.M. Van Houten - Ca^{2+} antagonists and vasodilation
- 3.45-4.15 p.m. Coffee break and Poster Session
- Group 18 - Vascular adrenergic receptors - moderator J. McGrath
Posters 11, 12, 13, 16, 17, 37, 40, 42, 43, 42
- Group 19 - Mechanism of action of vasodilator drugs - moderator R. Ljung
Posters 7, 12, 13, 15, 17, 21, 24, 34, 37, 41, 41, 44, 46, 52, 55, 56, 59, 60, 61, 72, 73, 75, 79, 80, 81
- Group 20 - Hemodynamic effects of vasodilator drugs - moderator R. Zelis
Posters 11, 40, 42, 51, 74, 82

Plenary Session 7 - "Vasodilator drugs: hemodynamic and therapeutic implications"

- Chairman: T. Di Perri
- 4.15 p.m. Introductory remarks: T. Di Perri
- 4.20 p.m. R. Zelis - Nitroglycerin and regional blood flows
- 4.35 p.m. G. Mancini - Alpha-adrenergic blockade and autonomic control
- 4.40 p.m. P. De Leeuw - Alpha-adrenergic blockade and hypertension
- 4.55 p.m. U. Maenn - Vasodilators and heart failure
- 5.20 p.m. B. Robinson - Difference in response between arteries and veins
- General Discussion Session 7 - "Vasodilator therapy"
- Chairman: C. Ryan
- 5.10 p.m. Introductory remarks: C. Ryan
- 5.35-6.25 p.m. General discussion
- Moderators: B. Ljung, R. Zelis, T. Di Perri, F. Gross
- 6.25 p.m. Concluding remarks: P.M. Vanhoutte